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MONTHLY NOTICES

OF THE

ROYAL ASTRONOMICAL SOCIETY.

VOL. LIV. JANUARY 12, 1894. NO. 3.

Lieut.-General TENNANT, C.I.E., R.E., F.R.S., Vice-President, in the Chair.

William Briggs, B.A., LL.B., F.C.S., Burlington House, Cambridge;
John Harrison Buckley, 70 Tower Street, Leicester;
John Evershed, jun., Kenley, Surrey;
Joshua Jukes, 43 High Street, Smethwick, near Birmingham;
Henry Alfred Lenehan, Astronomical Assistant, Government Observatory, Sydney, Australia;
Armin Otto Leuschner, A.B., Assistant Professor of Astronomy in the University of California, San Francisco;
Henry MacEwen, 5 Cathkin Terrace, Mount Florida, Glasgow;
Rev. David Powell Richards, B.A., Chaplain and Naval Instructor to H.M.S. *Canada*, Bermuda;
Richard Pickering Sellors, B.A., Astronomical Observer, Government Observatory, Sydney, Australia;
Max Wolf, Ph.D., Professor of Astronomy in the University, Heidelberg, Germany,

were balloted for and duly elected Fellows of the Society.

The following candidates were proposed for election as Fellows of the Society, the names of the proposers from personal knowledge being appended:—

Augustin Stanislaus Ghosh, 28 Convent Road, Calcutta (proposed by A. C. D. Crommelin);
Lieutenant William H. F. Montanaro, R.N., H.M.S. *Canada*, Bermuda (proposed by Sir Josiah Rees);

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Walter A. Post, Civil Engineer, Newport News, Virginia, U.S.A. (proposed by S. W. Burnham);

Alexander William Roberts, Mathematical Master, Alice, Lovedale, Cape Colony (proposed by David Gill).

Sixty-eight presents were announced as having been received since the last meeting, including, amongst others—

Bulletin du Comité International pour l'exécution photographique de la Carte du Ciel, tome ii., fasc. 2, presented by the French Academy; Ch. Dufour, La Scintillation des Etoiles, presented by the Author; German Transit of *Venus* Commission, Bericht über die deutschen Beobachtungen, herausgegeben von A. Auwers, Band V., presented by the Commission; F. Tisserand, Traité de Mécanique Céleste, tome iii., presented by the Author; Webb's Celestial Objects, new edition, vol. i., by the Rev. T. E. Espin, presented by the Publishers; Original negatives of *Jupiter*, and copies of Mr. Schaeberle's photographs of the Corona of 1893 April, presented by the Lick Observatory.

Mean Areas and Heliographic Latitudes of Sun-spots in the year 1891, deduced from Photographs taken at the Royal Observatory, Greenwich, at Dehra Dûn (India), and in Mauritius.

(*Communicated by the Astronomer Royal.*)

The results here given are in continuation of those printed in the *Monthly Notices*, vol. lii., p. 24, and are deduced from the measurements of solar photographs taken at the Royal Observatory, Greenwich, at Dehra Dûn, India, and at the Royal Alfred Observatory, Mauritius.

Table I. gives the mean daily areas of umbræ, whole spots, and faculæ for each synodic rotation of the Sun in 1891; and Table II. gives the same particulars for the entire year 1891, and for the two preceding years, for the sake of comparison. The areas are given in two forms. First, projected areas, that is to say, as seen and measured on the photographs, these being expressed in millionths of the Sun's apparent disc; and next, areas as corrected for foreshortening, the areas in this case being expressed in millionths of the Sun's visible hemisphere.

Table III. exhibits for each rotation in 1891 the mean daily area of whole spots, and the mean heliographic latitude of the spotted area, for spots north and for spots south of the equator, together with the mean heliographic latitude of the entire spotted area, and the mean distance from the equator of all spots; and Table IV. gives the same information for the year as a whole, similar results for 1889 and 1890 being added as in the case of

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